



IC-F33GT

(VHF transceiver with 10-keypad)

(VHF transceiver without 10-keypad)

IC-F43GT

(UHF transceiver with 10-keypad)

IC-F43GS

(UHF transceiver without 10-keypad)



A new direction in Land Mobile radios



The IC-F33G series is suitable for a variety of needs — large or small, mobile or stationary. Whether you are a large-scale construction site, warehouse, hospital or hotel, or a small on the go messenger service, this radio provides the built-in flexibility to handle your communication needs.

Offering advanced features such as wide frequency range, multiple signaling and loud audio, the IC-F33G series is a rugged and reliable 2-way communications tool. This is the new direction in LMR communications.

Lithium-Ion battery pack

Supplied 1150mAh Li-Ion battery pack, BP-231, provides 8/9 hours* of operating time. For longer operating time, use the BP-232 which is rated for a full 15/16 hours*. Li-Ion technology has virtually no memory charging issues. A rugged dual-rail guide securely locks the battery to the radio.

* UHF/VHF, Typical operation Tx:Rx: Standby=5:5:90, power save on

Wide frequency range and large channel capacity

The IC-F33G series covers a wide frequency range in one version (VHF 136–174 MHz, UHF 400–470MHz or 450–512 (520) MHz). The 256 memory channel capacity with 16 memory banks allows you to divide and store a variety of flexible channel groupings. Easy memory channel selection with a simple rotation of the rotary channel knob.

Small and lightweight body

The IC-F33G series sheds size and weight compared with previous models, weighing just 285g* (including BP-231) and measuring only 53(W)×120(H)×32.5(D) mm**. The aluminum die-cast chassis and polycarbonate casing combination meets MIL standard specifications.

* 10.0 oz, VHF version ** 23/32(W)x 423/32(H)x19/32(D) in

Built-in multi-format tone signaling

Use the built-in CTCSS, DTCS, 2-Tone, 5-Tone or BIIS capability to set up your own talk groups and quiet stand-by when others are talking. You can also set up selective calls to individuals or control a repeater.

VHF TRANSCEIVERS

IC-F33GT

With 10-keypad

IC-F33GS

With 10-keypad

IC-F33GS
Without 10-keypad

With 10-keypad

With 10-keypad

UHF TRANSCEIVERS

IC-F43GT
With 10-keypad

IC-F43GS
Without 10-keypad

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Icom Inc.

P₀ P₁ P₂ P₃



Multiple 2-Tone, Multiple 5-Tone

Encode or decode up to 10 2-Tone, 8 5-Tone codes on a single memory channel. This is perfect for professionals who require multiple district paging on one channel. When a matched tone is received, the following items are programmable for each code

- Bell icon
- Answer back Stun
- Beep sound
 Auto transmit
 Scan

8 programmable buttons

The [P0]–[P3], [▲], [▼], [Red] and [Monitor] buttons are programmable to meet specific needs. The [Red] button on the top panel can be assigned as an emergency trigger.

Alphanumeric display

The 8-character alphanumeric display shows channel, bank, tone code and scanning channel names on the display. A separate row of operational icons indicate battery, signal strength, RX/TX and other radio conditions.

Audio compander

The built-in audio compander reduces noise components and provides clear reception even in narrow band use.

Built-in voice scrambler

The IC-F33G series includes a built-in inversion type voice scrambler in all models. When a more secure system is required, the optional voice scrambler unit UT-109 or UT-110 is available.

BIIS 1200 compatible

The following selective calling and data features are available with the built-in BIIS system.

- · 32 abbreviated call memories
- 7 group IDs 24-status Messages
- Send 8-character SDM (Short Data Message)
- Receive up to 95 characters of free text

Other features

- 8 DTMF autodial memories
- 2 step reduced power setting
- Power saver
- Power on password
- Busy, repeater lockout functions
- Optional SmarTrunk 3G[™] unit, UT-117
- Programmable wide and narrow channel bandwidth (25/12.5kHz, 30/15kHz) and more...





OPTIONS



Battery packs	Type and capacity	Operating time* (VHF/UHF)	Output power (VHF/UHF)		
BP-230	Li-Ion 7.4V/ 800mAh	6/6 hours	5W/4W		
BP-231	Li-Ion 7.4V/1150mAh	9/8 hours	5W/4W		
BP-232	Li-Ion 7.4V/2000mAh	16/15 hours	5W/4W		

Operating time is approximate time (at 20°C).

Tx: Rx: standby=5:5:90. Power save on.



BC-160 DESKTOP CHARGER + BC-145 AC ADAPTER Charges the BP-231 in 2 hours (approx.).

BC-119N DESKTOP CHARGER + AD-106 CHARGER ADAPTER + BC-145 AC ADAPTER: Charges the BP-231 in 2 hours (approx.). CP-17L CIGARETTE LIGHTER CABLE, OPC-515L DC POWER CABLE For use with the BC-160 or BC-119N. (12-16V DC required).



BC-121N MULTI-CHARGER + AD-106 CHARGER ADAPTER + BC-124 AC ADAPTER

Rapidly charges up to 6 battery packs (Six AD-106s are required). Charging time: approx. 2 hours when BP-231 is attached. OPC-656 DC POWER CABLE : For use with the BC-121N. (12-20V DC required).

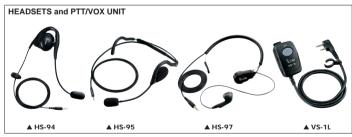


MB-93: Swivel type. A fast and easy way to remove the transceiver from your belt. MB-94 : Alligator type. Same as supplied.



MB-96N: Swivel type belt hanger. Swivel joint of the MB-93 supplied.

MB-96F: Fixed type belt hanger. For use with



HS-94: Earhook headset with flexible boom microphone.

HS-95: Behind-the-head headset with flexible boom microphone.

HS-97: Throat microphone fits around your neck and picks up speech vibration. VS-1L: PTT/VOX unit. Required when using these headsets with the transceiver.

INTERNAL UNITS UT-108 DTMF DECODER UT-109 VOICE SCRAMBLER UNIT UT-113 MAN DOWN UNIT UT-117

UT-105 : Provides SmarTrunk II™ capabilities.

UT-108: Provides DTMF, Selective call and ANI capabilities.

UT-109: Up to 32 scrambling codes are available. Version 02 is required. UT-110: Up to 1020 scrambling codes are available. Version 02 is required.

UT-113: Automatically sends an emergency signal when the transceiver is left in a horizontal position for a preset time.

UT-117 : Provides SmarTrunk 3G[™] and SmarTrunk II[™] capabilities. Enhanced calling fea-



HM-131L: Durable body. Equipped with an earphone jack and revolving clip.

SP-13 : EARPHONE Provides clear audio in noisy environments



STUBBY ANTENNAS

• FA-SC56VS: 150-162MHz • FA-SC57VS: 160-174MHz • FA-SC73US: 450-490MHz

ANTENNAS

SmarTrunk 3G™ Board

 FA-SC25V: 136–150MHz • FA-SC55V : 150-174MHz

FA-SC25U: 400-430MHz

• FA-SC57U: 430-470MHz • FA-SC72U: 470-520MHz

IC-F33GT/GS • IC-F43GT/GS

SPECIFICATIONS

Number of channels

GENERAL Frequency range IC-F33GT/GS 136-174MHz (U.S.A. and General) IC-F43GT/GS 400-470MHz (U.S.A. and General) 450-512MHz (U.S.A.)

450-520MHz (General) : 256 channels/16 banks

: 12.5kHz/25kHz, 15kHz/30kHz Channel spacing

 PLL channel step : 2.5kHz, 3.125kHz (VHF) 5kHz, 6.25kHz (UHF)

Antenna impedance

• Usable temperature range : -30°C to +60°C; -22°F to +140°F

• Power supply requirement: 7.2V DC • Current drain (at 7.2V DC; approx.):

Transmit VHF/UHF 1.5A/1.7A (at 5W/4W)

85mA Receive stand-by rated output 300mA

• Dimensions (with BP-231) : 53 (W) ×120 (H) ×32.5 (D) mm; (projections are not included) $2\frac{3}{32}$ (W) $\times 4^{23}\frac{32}{32}$ (H) $\times 1^{9}\frac{32}{32}$ (D) in

: 285q; 10.0oz (VHF) Weight (approx.) (with BP-231 and anttenna) 300g; 10.6oz (UHF)

TRANSMITTER

 Output power : 5W (VHF), 4W (UHF)

• Max. frequency deviation: ±5kHz (Wide)

±2.5kHz (Narrow)

 Frequency error : ±2.5ppm

 Spurious emissions : 80dB typ. (VHF)

70dB typ. (UHF)

Adjacent channel power : 70dB (Wide), 60dB (Narrow)

 FM Hum and Noise : 46dB typ. (Wide)

40dB typ. (Narrow)

• Audio harmonic distortion: 3% typ. (AF 1kHz, 40% deviation) Modulation limiting : 60-100% of max. deviation

External microphone connector :

3-conductor 2.5 (d) mm $(\frac{1}{10})/2.2$ k Ω

Measurements made in accordance with EIA/TIA-603. All stated specifications are subject to change without notice or obligation.

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RECEIVER

• Intermediate frequency 46.35MHz : 1st

2nd 450kHz

 Sensitivity : 0.25µV typ. (at 12dB SINAD)

 Squelch sensitivity : 0.25µV typ. (at threshold)

Adjacent channel selectivity: 75dB typ. (Wide)

65dB typ. (Narrow)

 Spurious response : 70dB Intermodulation : 74dB typ.

 Hum and noise ratio : 45dB typ. (Wide) 40dB typ. (Narrow)

 Audio output power : 500mW typ.

(at 5% distortion with an 8Ω load)

External speaker connector: 2-conductor 3.5 (d) mm (½")/8Ω

Applicable U.S. Military Specifications

Icom makes rugged products that meet MIL-STD requirements and strict environmental standards as follows.

Standard	MIL 810C		MIL 810D		MIL 810E		MIL 810F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4-3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain	506.1	II	506.2	II	506.3	II	506.4	III
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	-
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	_
Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.4	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV



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